

## CLAIMS

We Claim:

1           1. A method for performing a function on a selected portion of a signal,  
2 comprising:  
3           marking a start frequency with a band marker;  
4           marking a stop frequency with the band marker; and,  
5           performing the function on a bandwidth of the signal between the start  
6 frequency and the stop frequency.

1           2. A method as in claim 1 wherein the function is one of the following:  
2           band power;  
3           band power density.

1           3. A method as in claim 1:  
2           wherein the start frequency is marked with a left foot of the band marker,  
3 the left foot of the band marker being a vertical line; and,  
4           wherein the stop frequency is marked with a right foot of the band  
5 marker, the right foot of the band marker being a vertical line.

1           4. A method as in claim 1:  
2           wherein the start frequency is marked with a left foot of the band marker,  
3 the left foot of the band marker being a vertical line;

4            wherein the stop frequency is marked with a right foot of the band  
5 marker, the right foot of the band marker being a vertical line; and,  
6            wherein the center of the bandwidth of the bandwidth of the signal  
7 between the start frequency and the stop frequency is indicated by a center  
8 diamond of the band marker.

1            5. A method as in claim 1 additionally comprising:  
2            marking a second start frequency with a second band marker;  
3            marking a second stop frequency with the second band marker; and,  
4            performing a delta band function on a second bandwidth of the signal  
5 between the second start frequency and the second stop frequency along with  
6 the bandwidth of the signal between the start frequency and the stop frequency.

1            6. A method as in claim 5 wherein the delta band function is one of the  
2 following:  
3            delta band power;  
4            delta band power density.

1            7. A user interface for an electronic instrument, comprising:  
2            a display that displays a signal and a band marker, the band marker  
3 demarking a bandwidth of the signal by marking both a start frequency of the  
4 bandwidth, and a stop frequency of the bandwidth;

5            wherein the electronic instrument performs a function on the bandwidth  
6 of the signal between the start frequency and the stop frequency.

1            8. A user interface as in claim 7 wherein the function is one of the  
2 following:

3            band power;  
4            band power density.

1            9. A user interface as in claim 7:  
2            wherein the start frequency is marked with a left foot of the band marker,  
3 the left foot of the band marker being a vertical line; and,  
4            wherein the stop frequency is marked with a right foot of the band  
5 marker, the right foot of the band marker being a vertical line.

1            10. A user interface as in claim 7:  
2            wherein the start frequency is marked with a left foot of the band marker,  
3 the left foot of the band marker being a vertical line;  
4            wherein the stop frequency is marked with a right foot of the band  
5 marker, the right foot of the band marker being a vertical line; and,  
6            wherein the center of the bandwidth of the bandwidth of the signal  
7 between the start frequency and the stop frequency is indicated by a center  
8 diamond of the band marker.

1           11. A user interface as in claim 7 wherein the display additionally  
2 displays a second band marker, the second band marker demarking a second  
3 bandwidth of the signal by marking both a start frequency of the second  
4 bandwidth, and a stop frequency of the second bandwidth.

1           12. A user interface as in claim 7 wherein the display additionally  
2 displays a second band marker, the second band marker demarking a second  
3 bandwidth of the signal by marking both a start frequency of the second  
4 bandwidth, and a stop frequency of the second bandwidth;  
5           wherein the electronic instrument performs a delta function on the second  
6 bandwidth of the signal vis-à-vis the bandwidth of the signal between the start  
7 frequency and the stop frequency.

1           13. A user interface as in claim 12 wherein the delta band function is one  
2 of the following:  
3           delta band power;  
4           delta band power density.

1           14. An electronic instrument, comprising:  
2           an input means for receiving selections from a user; and,  
3           a display means for displaying a signal and a band marker, the band  
4 marker demarking a bandwidth of the signal by marking both a start frequency  
5 of the bandwidth, and a stop frequency of the bandwidth;

6            wherein the electronic instrument performs a function on the bandwidth  
7 of the signal between the start frequency and the stop frequency.

1            15. An electronic instrument as in claim 14 wherein the function is one of  
2 the following:

3            band power;

4            band power density.

1            16. An electronic instrument as in claim 14:

2            wherein the start frequency is marked with a left foot of the band marker,  
3 the left foot of the band marker being a vertical line; and,

4            wherein the stop frequency is marked with a right foot of the band  
5 marker, the right foot of the band marker being a vertical line.

1            17. An electronic instrument as in claim 14:

2            wherein the start frequency is marked with a left foot of the band marker,  
3 the left foot of the band marker being a vertical line;

4            wherein the stop frequency is marked with a right foot of the band  
5 marker, the right foot of the band marker being a vertical line; and,

6            wherein the center of the bandwidth of the bandwidth of the signal  
7 between the start frequency and the stop frequency is indicated by a center  
8 diamond of the band marker.

1           18. An electronic instrument as in claim 14 wherein the display means is  
2 additionally for displaying a second band marker, the second band marker  
3 demarking a second bandwidth of the signal by marking both a start frequency  
4 of the second bandwidth, and a stop frequency of the second bandwidth.

1           19. An electronic instrument as in claim 14 wherein the display means is  
2 additionally for displaying a second band marker, the second band marker  
3 demarking a second bandwidth of the signal by marking both a start frequency  
4 of the second bandwidth, and a stop frequency of the second bandwidth;  
5           wherein the electronic instrument performs a delta function on the second  
6 bandwidth of the signal vis-à-vis the bandwidth of the signal between the start  
7 frequency and the stop frequency.

1           20. An electronic instrument as in claim 19 wherein the delta band  
2 function is one of the following:  
3           delta band power;  
4           delta band power density.